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*Please fill -
action has been taken
on this. Overrun approved
By 10/17*



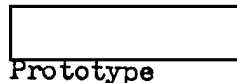
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27 June 1967

Dear Willard:

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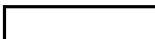
Subject:



Prototype

- PAR 243A - Briefing Print Enlarger

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Work on the subject PAR is close to completion. It is estimated that at completion the PAR will be overrun approximately  The contract, as a whole, however, has adequate funds due to previously accumulated underruns on other PARs.

The total program was reviewed at the end of January. The indications were then that we would be able to complete within the originally estimated cost. Since that time added costs have been incurred in four areas.

1. As assembly and engineering testing progressed, a number of significant changes to the design were deemed necessary or highly desirable to reach the objectives set for the operation of the enlarger. They have been much more numerous and extensive than originally anticipated. Typical of the more important of these are:
 - a. Addition of brushes to remove immersion fluid bead from bottom edge of the negative web.
 - b. Provision of a reference standard light source to aid in resetting easel photometer attenuator controls.
 - c. Mechanical and electrical modifications of the film transport to provide thoroughly safe film handling.
 - d. Repackaging of electrical readout assemblies to eliminate mechanical interferences with film spool movement.
 - e. Changes to electrical circuitry to permit standby operation of the easel photometer.

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2. Fabrication and assembly costs associated with the engineering changes growing out of the checkout and testing function were also larger than anticipated.
3. The development of the operating and servicing manual has been a much larger task than envisioned in earlier estimates. This effort has involved a great deal of engineering time, including that of project engineers, in support of the writing and editing work.
4. Our participation with customer representatives in liaison and conferences has been much more extensive than anticipated. Although it has been costly, we feel it has been of substantial mutual benefit.

A great deal of interest in this design has been shown by the technical representatives of the various customers for the prototype and the follow-on quantity. An unusual number of conferences and informational visits have taken place. The resulting interchange of ideas has generated many good suggestions for improvement. These, for the most part, have been incorporated into the prototype. Much of this work might strictly be called change in scope. Most of the items, however, taken one at a time, are small in terms of effort involved, and were incorporated as part of the flow of engineering and modification effort expended over the last three months. It would be very difficult to segregate and properly identify their individual costs. We, therefore, feel they should remain a part of the overrun being reported without asking for more fee.

RRW:eb


R. R. W.

Copy #1: WJ
2: JP

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